

Insecta, Hymenoptera, Sphecidae, *Prionyx pumilio* (Taschenberg, 1869): Distribution extension

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ABSTRACT: *Prionyx pumilio* (Taschenberg, 1869) was recorded in Argentina, Peru, Chile and Brazil (in state of Goiás), the last report being questioned in the past. The present note extends the distribution of *P. pumilio* to northeast Brazil, in state of Paraíba, so, the record from Goiás must not be considered doubtful. The present finding indicates that *P. pumilio* is associated with dry ecosystems at least in part of its geographic distribution.

Prionyx Vander Linden is a widespread genus with 59 described species (Pulawski 2009), 15 of which occur in the Neotropical Region (Amarante 2002). Bohart and Menke (1963) defined the '*Prionyx pumilio* species group' by the following features: (1) claws with two well-formed teeth; (2) metapleuron not channeled; (3) female clypeus entire; (4) male flagellum without fossulae. The group includes *Prionyx pumilio* (Taschenberg, 1869) and *Prionyx chilensis* (Spinola, 1851). The former species is easily distinguished from *P. chilensis* in (1) bearing white setae on the head and (2) first and second forewings submarginal cells receiving respectively the first and second recurrent veins. Head setae are black in *P. chilensis*, and the second and third submarginal cells of the forewings receiving respectively the first and second recurrent veins

Occurrence of *P. pumilio* was recorded in Argentina, Peru and Chile (Willink 1951; Bohart and Menke 1963; see also Pulawski 2009) and there is a record from as far northward as central Brazil, state of Goiás, by Berland (1926). The latter record was questioned by Willink (1951), who said that *P. pumilio* is characteristically a sub-andean species and probably does not occur in that region. On the other hand, Amarante (2002) reported the occurrence of *P. pumilio* in the state of Goiás in his catalog of Neotropical sphecids and crabronids, possibly repeating Berland's record.

The present note extends the distribution of *P. pumilio* as far north as northeast Brazil, based on the examination of 18 females and 1 male collected by Cincinato Rory Gonçalves (in August, 1956) in the locality of Brandão Junco, city of Santa Luzia (06°52'20"S, 36°55'07"W), state of Paraíba. The material examined is deposited in the entomological collection of the Museu Nacional - Universidade Federal do Rio de Janeiro, Brazil.

The specimens examined perfectly match with the description of *P. pumilio* by Willink (1951, as *Neosphex pumilio*) and do not show significant morphological variation. The discovery of *P. pumilio* in northeast Brazil indicates that it is not a strictly sub-andean species, so

the record by Berland (1926) from the state of Goiás must not be considered doubtful based on Willink (1951) arguments. Remarkably, *P. pumilio* was recorded from two somewhat dry regions in Brazil; the state of Goiás, which is almost entirely covered by Cerrado Biome, a somewhat dry ecosystem, and the state of Paraíba, which is covered by semi-arid Biome of the Caatinga. Besides, *P. pumilio* was previously recorded in semi-arid environments in Argentina (e.g. Vasquez *et al.* 2008). Thus, *P. pumilio* is associated with dry ecosystems at least in part of its geographic distribution.

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LITERATURE CITED

- Amarante, S.T.P. 2002. A synonymic catalog of the neotropical Crabronidae and Sphecidae (Hymenoptera: Apoidea). *Arquivos de Zoologia* 37 (1): 102-139.
- Bohart, R.M. and A.S. Menke. 1963. A reclassification of the Sphecinae with a revision of the Nearctic species of the tribes Sceliphronini and Sphecini (Hymenoptera, Sphecidae). *University of California Publications on Entomology* 30 (2): 91-182.
- Berland, 1926. Les Sphégidae (Hyménoptères) du Muséum National de Paris (2^e Note). *Bulletin du Muséum National d'Histoire Naturelle* 32: 163-170.
- Pulawski, W.J. 2009. *Catalog of Sphecidae sensu lato*. Eletronic database accessible at http://www.calacademy.org/research/entomology/Entomology_Resources/Hymenoptera/sphecidae/Genera_and_species_PDF/introduction.htm. Assessed on May 16, 2009.
- Vásquez, D.P., V. Aschero, and E.L. Estevani. 2008. Livestock grazing, habitat protection and diversity of bees and wasps in the Central Monte desert. *Revista de la Sociedad Entomológica Argentina* 67 (3-4): 1-10.
- Willink, A. 1951. Las especies argentinas y chilenas de "Chlorionini" (Hym., Sphecidae). *Acta Zoologica Lilloana* 11: 52-225.

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